CONTENTS OF VOLUME 19

Number 1		February 1989
	Instructions to Contributors	i
	Parasitological Calendar	1
	Parasitological Societies of the World	3
K. YAMAKAMI and F. HAMAJIMA	Purification of a neutral thiol protease from *Paragonimus westermani* metacercariae by single-step chromatography and preparation of antibodies	9
I. PAPERNA and K. OSTROVSKA	Ultrastructural studies on sporozoite stages of *Schellackia cf. agamae* from liver and blood of the starred lizard *Agama stellio*	13
N. CAÑADO and F. RODRIGUEZ-CAABEIRO	Ultrastructural study of *in vitro* larval development of *Echinococcus granulosus* protoscoleces	21
C. CRAWFORD, J. M. BEHNKE and D. I. PRITCHARD	Suppression of heterologous immunity by *Nematospiroides dubius* antigens *in vitro*	29
P. G. C. DOUCH and P. M. OUTTERIDGE	The relationship between ovine lymphocyte antigens and parasitological and production parameters in Romney sheep	35
L. A. DUNN, P. F. L. BOREHAM and D. J. STENZEL	Ultrastructural variation of *Blastocystis hominis* stocks in culture	43
D. A. CROSS and P. H. KLESIUS	Soluble extracts from larval *Ostertagia ostertagi* modulating immune function	57
P. RAMASAMY and R. E. B. HANNA	The surface topography of *Gotocotyla secunda* and *Gotocotyla bivaginalis* (Monogenea, Polyopisthocotylea) from *Scomberomorus commerson*	63
F. G. MONROY, I. J. EAST, C. DOBSON and J. H. ADAMS	Immunity in mice vaccinated with a molecular weight 60,000 glycoprotein secreted by adult *Nematospiroides dubius*	71
J. C. W. COMLEY, M. J. REES, C. H. TURNER and D. C. JENKINS	Colorimetric quantitation of filarial viability	77
E. L. JESKA and M. STANKIEWICZ	Responses of NFR/N inbred mice to very low-dose infections with *Ascaris suum*	85
A. G. CAPON, J. A. UPCROFT, P. F. L. BOREHAM, L. E. COTTIS and P. G. BUNDESEN	Similarities of *Giardia* antigens derived from human and animal sources	91
P. J. WALLER, A. D. DONALD, R. J. DOBSON, E. LACEY, D. R. HENNESSY, G. R. ALLERTON and R. K. PRICHARD	Changes in anthelmintic resistance status of *Haemonchus contortus* and *Trichostrongylus colubriformis* exposed to different anthelmintic selection pressures in grazing sheep	99
K. ANDRESEN, P. E. SIMONSEN, B. J. ANDERSEN and A. BIRCH-ANDERSEN	*Echinostoma caproni* in mice: shedding of antigens from the surface of an intestinal trematode	111

A. A. MARCHIONDO, P. P. WEINSTEIN and J. F. MUELLER — Significance of the distribution of ^{57}Co–vitamin B_{12} in *Spirometra mansonoides* (Cestoidea) during growth and differentiation in mammalian intermediate and definitive hosts — 119

Research Notes

F. G. MONROY, C. DOBSON and J. H. ADAMS — Low molecular weight immunosuppressors secreted by adult *Nematospiroides dubius* — 125

F. G. MONROY, C. J. R. CAYZER, J. H. ADAMS and C. DOBSON — Proteolytic enzymes in excretory–secretory products from adult *Nematospiroides dubius* — 129

Book Review

R. J. G. LESTER — *Guide to the Parasites of Fishes of Canada. Part II. Crustacea.* Edited by L. Margolis and Z. Kabata — 133

Number 2 — April 1989

Instructions to Contributors — i

Parasitological Calendar — 135

T. ODA — Centenary Biographical Note: Hiroshi Tanabe 1888–1968 — 137

Invited Review Article

T. L. W. ROTHWELL — Immune expulsion of parasitic nematodes from the alimentary tract — 139

General Papers

D. B. ADAMS — A preliminary evaluation of factors affecting an experimental system for vaccination-and-challenge with *Haemonchus contortus* in sheep — 169

P. G. C. DOUCH — The effects of immunization of sheep with *Trichostrongylus colubriformis* larvae on worm burdens acquired during grazing — 177

R. H. ANDREWS, M. ADAMS, P. F. L. BOREHAM, G. MAYRHOFER and B. P. MELONI — *Giardia intestinalis*: electrophoretic evidence for a species complex — 183

V. SHARMA, P. K. S. VISEN, J. C. KATIYAR, R.-M. WITTICH, R. D. WALTER, S. GHATAK and O. P. SHUKLA — Polyamine metabolism in *Ancylostoma ceylanicum* and *Nippostrongylus brasiliensis* — 191

H. J. S. DAWKINS, R. G. WINDON and G. K. EAGLESON — Eosinophil responses in sheep selected for high and low responsiveness to *Trichostrongylus colubriformis* — 199

J. B. WILLIAMS — Ultrastructural studies on *Kronborgia* (Platyhelminthes: Fecampiidae): the oocyte of *K. isopodicola*, with comments on oocyte microvilli and chromatoid bodies — 207

Medical Communication

E. S. UPATHAM, V. VIYANANT, W. Y. BROCKELMAN, S. KURATHONG, P. LEE and U. CHINDAPHOL — Prevalence, incidence, intensity and associated morbidity of intestinal helminths in South Thailand — 217

Research Note

S. DEMATTEIS, G. ARBURÚAS, M. MARCO, M. MÍGUEZ and A. NIETO — Quantitative determination of anti-hydatid antibodies by ELISA without a colorimetric reading — 229

Number 3 — May 1989

Instructions to Contributors — i

Editorial — 231

Parasitological Calendar — 233

A. F. BIRD, and B. M. ZUCKERMAN — Studies on the surface coat (glycocalyx) of the dauer larva of *Anguina agrostis* — 235

I. K. BARKER, M. G. O'CALLAGHAN and I. BEVERIDGE — Host–parasite associations of *Eimeria* spp. (Apicomplexa: Eimeriidae) in kangaroos and wallabies of the genus *Macropus* (Marsupialia: Macropodidae) — 241

R. J. LANGLEY and J. S. GRAY — Non-specific resistance to *Babesia divergens* in the Mongolian gerbil (*Meriones unguiculatus*) — 265

I. J. EAST, D. A. BERRIE and C. J. FITZGERALD — *Oesophagostomum radiatum*: successful vaccination of calves with high molecular weight antigens — 271

S. R. TELFORD, JR, R. N. JOHNSON and D. G. YOUNG — Additional *Plasmodium* species from *Anolis* lizards of Hispaniola and Panama — 275

M. FAULKNER, D. W. HALTON and W. I. MONTGOMERY — Sexual, seasonal and tissue variation in the encystment of *Cotylurus variegatus* metacercariae in perch, *Perca fluviatilis* — 285

P. F. BILLINGSLEY and A. E. R. DOWNE — The effects of artificial diets on the anterior intestinal cell ultrastructure of *Rhodnius prolixus* (Hemiptera: Reduviidae) — 291

B. M. WAGLAND, L. R. ABEYDEERA, T. L. W. ROTHWELL and D. OUWERKERK — Experimental *Haemonchus contortus* infections in guinea pigs — 301

A. G. MAULE, D. W. HALTON, C. F. JOHNSTON, I. FAIRWEATHER and C. SHAW — Immunocytochemical demonstration of neuropeptides in the fish-gill parasite, *Diclidophora merlangi* (Monogenoidea) — 307

P. J. MARTIN — Selection for thiabendazole resistance in *Ostertagia* spp. by low efficiency anthelmintic treatment — 317

I. J. O'DONNELL, J. K. DINEEN, B. M. WAGLAND, S. LETHO, J. A. WERKMEISTER and C. W. WARD	A novel host-protective antigen from *Trichostrongylus colubriformis*	327
T. A. PAGET, A. H. W. MENDIS and D. LLOYD	Respiration in the filarial nematode *Brugia pahangi*	337
Research Notes		
C. L. GOGGIN and L. R. G. CANNON	Occurrence of a turbellarian from Australian tridacnid clams	345
T. L. W. ROTHWELL, S. E. POPE and G. H. COLLINS	*Trixacarus caviae* infection of guinea pigs with genetically determined differences in susceptibility to *Trichostrongylus colubriformis* infection	347
T. K. BHAT, R. L. SHARMA and K. P. JITHENDRAN	Experimental studies on anaemia in sheep infected with *Dictyocaulus filaria*	349
B. FRIED, S. SCHAFER and S. KIM	Effects of *Echinostoma caproni* infection on the lipid composition of *Biomphalaria glabrata*	353
Book Review		
P. F. L. BOREHAM	*Trichomonads and Trichomoniasis: Proceedings of the International Symposium held in Prague, Czechoslovakia, 3–7 July* 1985, *Acta Universitatis Carolinae—Biologica* (1986), Vol. 30, Nos 3–6, pp. 178–564. Edited by J. Kulda and J. Cerkosov	355
	Announcement	357
	Corrigendum	359

Number 4 July 1989

	Instructions to Contributors	i
	Parasitological Calendar	361
R. O. MCCRACKEN and K. B. LIPKOWITZ	Experimental and theoretical studies of anthelmintics: oxfendazole and its imidazo[1,2-*a*]pyridine-2-carbamate isomer	363
G. GETTINBY, A. SOUTAR, J. ARMOUR and P. EVANS	Anthelmintic resistance and the control of ovine ostertagiasis: a drug action model for genetic selection	369
M. OLIVIER, S. BERTRAND and C. E. TANNER	Killing of *Leishmania donovani* by activated liver macrophages from resistant and susceptible strains of mice	377
G. SMITH	Population biology of the parasitic phase of *Ostertagia circumcincta*	385
M. NOVAK, K. MARAT, L. JOHNSON and B. J. BLACKBURN	^{1}H and ^{13}C n.m.r. studies of serum from normal and *Echinococcus multilocularis* infected jirds	395
M. M. EL-NAGGAR and G. C. KEARN	Haptor glands in the gill-parasitic, ancyrocephaline monogenean *Cichlidogyrus halli typicus* and the report of a possible prokaryotic symbiont	401

L. GRUNER, P. BERBIGIER, J. CORTET and C. SAUVE	Effects of irrigation on appearance and survival of infective larvae of goat gastro-intestinal nematodes in Guadeloupe (French West Indies)	409
M. B. HILDRETH	Compartmentalization of radioactive glucose in the plerocercus metacestode of *Otobothrium insigne* (Cestoda: Trypanorhyncha)	417
W. A. BOEGER and D. C. KRITSKY	Phylogeny, coevolution, and revision of the Hexabothriidae Price, 1942 (Monogenea)	425
Research Notes		
P. PROCIV	Observations on egg production by *Toxocara pteropodis*	441
P. PROCIV	Some comments on the validity of *Toxocara cynonycteridis* (Parona, 1889)	445
A. G. M. TIELENS, B. E. P. VAN OORDT and S. G. VAN DEN BERGH	Carbohydrate metabolism in adult schistosomes of different strains and species	447
Software Survey		
D. A. WHARTON and G. WEBB	An approach to the teaching of host/parasite population modelling	451
	Announcement	457
Number 5		August 1989
	Instructions to Contributors	i
	Parasitological Calendar	459
J. O. CORLISS	Centenary Biographical Note: Horace W. Stunkard 1889–	461
Invited Review Article		
J. R. BAKER	Sexual processes in parasitic protozoa	465
General Papers		
D. J. MCGILLIVERY, W. K. YONG, G. G. RIFFKIN and B. ADLER	Extraction and identification of a 31,000 mol.wt glycoprotein antigen of *Ostertagia circumcincta* by sera from resistant sheep	473
J. C. PARSONS, D. D. BOWMAN and R. B. GRIEVE	Pathological and haematological responses of cats experimentally infected with *Toxocara canis* larvae	479
H. T. HENDOW and B. L. JAMES	Ultrastructure of vitellarium, vitellogenesis and associated ducts in *Maritrema linguilla* (Digenea: Microphallidae)	489
H. A. AL-SALMAN and B. L. JAMES	Ultrastructural studies on the daughter sporocysts of *Meiogymnophallus minutus* (Digenea: Gymnophallidae)	499
C. J. JANSE, E. G. BOORSMA, J. RAMESAR, M. J. GROBBEE and B. MONS	Host cell specificity and schizogony of *Plasmodium berghei* under different *in vitro* conditions	509
R. H. ANDREWS, M. ADAMS, P. R. BAVERSTOCK, C. A. BEHM and C. BRYANT	Genetic characterization of three strains of *Hymenolepis diminuta* at 39 enzyme loci	515

J. A. Upcroft, P. F. L. Boreham and P. Upcroft	Geographic variation in *Giardia* karyotypes	519
K. Rohde and N. Watson	Ultrastructural studies of larval and juvenile *Austramphilina elongata* (Platyhelminthes, Amphilinidea); penetration into, and early development in the intermediate host, *Cherax destructor*	529
G. Aumont and L. Gruner	Population evolution of the free-living stage of goat gastrointestinal nematodes on herbage under tropical conditions in Guadeloupe (French West Indies)	539
G. Aumont, G. Coulaud, A. Grude and L. Gruner	Pasture populations of cattle nematode larvae in Guadeloupe (French West Indies)	547
L. A. Beltz, G. Sonnenfeld and F. Kierszenbaum	Inhibition by *Trypanosoma cruzi* of interferon-gamma production by mitogen-stimulated mouse spleen cells	555
P. E. Simonsen, E. Bindseil and M. Køie	*Echinostoma caproni* in mice: studies on the attachment site of an intestinal trematode	561
Research Notes		
F. Parrodi, I. G. Wright, A. S. Bourne and C. Dobson	*In vitro* adherence of bovine erythrocytes infected with *Babesia bovis* to thrombospondin and laminin	567
D. E. Snyder	Scanning electron microscopic observations of adult *Baylisascaris procyonis* (Nematoda)	571

Number 6 September 1989

	Instructions to Contributors	i
	Parasitological Calendar	575
	Editorial Acknowledgement to Referees	577
A. D. Donald	Hugh McLeod Gordon: An Appreciation on his 80th Birthday	579
P. G. Janssens	Centenary Biographical Note: Albert Dubois 1888–1977	581
General Papers		
R. E. Martin and M. J. Donahue	Tissue and ultrastructural localization of 5-hydroxytryptamine (serotonin) in the tissues of *Ascaris suum* with energy dispersive X-ray spectrometry of immunoreactive structures	585
S. R. Telford, Jr	Discovery of the pre-erythrocytic stages of a saurian malaria parasite, hypnozoites, and a possible mechanism for the maintenance of chronic infections throughout the life of the host	597
L.-C. Wang, D. Chao and E.-R. Chen	Acquired immunity in rats against *Angiostrongylus cantonensis* infection	617
A. Harris, D. D. Heath, S. B. Lawrence and R. J. Shaw	*Echinococcus granulosus*: ultrastructure of epithelial changes during the first 8 days of metacestode development *in vitro*	621

M. J. Howell, J. J. Hargreaves and M. Fischer — Characterization of cloned antigens of *Taenia ovis* — 631

D. J. Mallinson, J. M. Lackie and G. H. Coombs — The oxidative response of rabbit peritoneal neutrophils to leishmanias and other trypanosomatids — 639

D. J. Mallinson and G. H. Coombs — Interaction of leishmania metacyclics with macrophages — 647

B. M. Okot-Kotber, M. J. Mutinga and J. B. Kaddu — Biochemical characterization of *Leishmania* spp. isolated from man and wild animals in Kenya — 657

A. Flisser, A. A. F. Elsaghier and D. J. McLaren — Effect of praziquantel on the migration and survival of developmental stages of *Schistosoma mansoni* in mice — 665

G. C. Kearn and R. Gowing — Glands and sensilla associated with the haptor of the gill-parasitic monogenean *Tetraonchus monenteron* — 673

B. Boag, P. B. Topham and R. Webster — Spatial distribution on pasture of infective larvae of the gastro-intestinal nematode parasites of sheep — 681

Research Notes

S. Deblock, C. Prost, S. Walbaum and A. F. Petavy — *Echinococcus multilocularis*: a rare cestode of the domestic cat in France — 687

U. R. Rao, B. H. Kwa, J. K. Nayar and A. C. Vickery — Lectin binding to larval stages of *Brugia patei* — 689

D. A. Welch and W. M. Samuel — Evaluation of random sampling for estimating density of winter ticks (*Dermacentor albipictus*) on moose (*Alces alces*) hides — 691

D. W. Cooper, R. A. H. van Oorschot, L. R. Piper and L. F. Le Jambre — No association between the Ovine Leucocyte Antigen (OLA) system in the Australian merino and susceptibility to *Haemonchus contortus* infection — 695

Number 7 — November 1989

Instructions to Contributors — i

Parasitological Calendar — 699

W. G. Inglis — Centenary Biographical Note: Harold Arnold Baylis 1889–1972 — 701

General Papers

M. A. Haseeb, B. Fried and L. K. Eveland — *Schistosoma mansoni*: female-dependent lipid secretion in males and corresponding changes in lipase activity — 705

H. Hata and S. Kojima — Induction of resistance in *Oncomelania hupensis nosophora* against *Schistosoma japonicum*, but not against *Paragonimus ohirai*, using irradiated miracidia — 711

D. B. Adams, B. H. Anderson and R. G. Windon	Cross-immunity between *Haemonchus contortus* and *Trichostrongylus colubriformis* in sheep	717
N. Storey, J. M. Behnke and D. Wakelin	*Acanthocheilonema viteae* (*Dipetalonema viteae*) in mice: attempts to correct the low responder phenotype of the BALB/c host	723
C. H. Carlisle, R. B. Atwell and R. H. Sutton	The effect of infusions of microfilariae (L1 larvae) of *Dirofilaria immitis* in dogs	729
G. C. Coles, M. B. Dicklow and B. M. Zuckerman	Protein changes associated with the infection of the nematode *Caenorhabditis elegans* by the nematophagous fungus *Drechmeria coniospora*	733
K. Bose, D. K. Ghosh and A. Bhattacharya	Membrane carbohydrate characterization of *Acanthamoeba astronyxis*, *A. castellanii* and *Naegleria fowleri* by fluorescein-conjugated lectins	737
M. Sanchez-Moreno, J. E. Ortega, A. Sanchez-Navas, J. M. Salas-Peregrin and M. Monteoliva	Cu–Zn-superoxide dismutase activity in *Moniezia expansa*: inhibition by pyrimidine derivatives	743
P. Prociv	Intraovular development and moulting of *Toxocara pteropodis*	749
M. Tanaka, T. Mimori, T. Minematsu and I. Tada	The acquirement of growth ability for third-stage larvae of *Strongyloides ratti* during the head-passage in the rat	757
P. Ramasamy and K. Ramalingam	The occurrence, site specificity and frequency distribution of *Bicotyle vellavoli* on *Pampus chinensis* and *Pampus argenteus*	761
J. T. Jones, P. Breeze and J. R. Kusel	Schistosome fecundity: influence of host genotype and intensity of infection	769
E. Marva, A. Cohen, P. Saltman, M. Chevion and J. Golenser	Deleterious synergistic effects of ascorbate and copper on the development of *Plasmodium falciparum*: an *in vitro* study in normal and in G6PD-deficient erythrocytes	779
D. J. Stenzel, L. A. Dunn and P. F. L. Boreham	Endocytosis in cultures of *Blastocystis hominis*	787
I. J. O'Donnell, J. K. Dineen, B. M. Wagland, S. Letho, T. A. A. Dopheide, W. N. Grant and C. W. Ward	Characterization of the major immunogen in the excretory–secretory products of exsheathed third-stage larvae of *Trichostrongylus colubriformis*	793
Medical Communication		
H. A. B. Linke, J. T. Gannon and J. N. Obin	Clinical survey of *Entamoeba gingivalis* by multiple sampling in patients with advanced periodontal disease	803
Veterinary Communication		
P. C. Fan, C. Y. Lin, M. L. Kosman and E. Kosin	Experimental infection of Indonesia *Taenia* (Samosir strain) in domestic animals	809

Research Note

G. THEODOROPOULOS and J. H. THEIS — Decrease of acid phosphatase activity in murine peritoneal macrophages infected with *Leishmania donovani* — 813

Book Review

W. L. NICHOLAS — *Strongyloidiasis: a Major Roundworm Infection of Man.* Edited by D. I. Grove — 817

Number 8 — December 1989

Instructions to Contributors — i

Parasitological Calendar — 819

T. A. TAGI-ZADE — Centenary Biographical Note: Petr Petrovich Popov 1888–1964 — 821

General Papers

M. ADAMS, R. H. ANDREWS, B. ROBINSON, P. CHRISTY, P. R. BAVERSTOCK, P. J. DOBSON and S. J. BLACKLER — A genetic approach to species criteria in the amoeba genus *Naegleria* using allozyme electrophoresis — 823

J. T. GANNON and H. A. B. LINKE — Growth studies on xenic cultures of *Entamœba gingivalis* using established media — 835

CH. BAYSSADE-DUFOUR, J. CABARET, L. D. NGENDAHAYO, J.-L. ALBARET, C. CARRAT and A. G. CHABAUD — Identification of *Schistosoma haematobium, S. bovis* and *S. curassoni* by multivariate analysis of cercarial papillae indices — 839

K. ROHDE and N. WATSON — Sense receptors in *Lobatostoma manteri* (Trematoda, Aspidogastrea) — 847

K. ROHDE, N. WATSON and F. ROUBAL — Ultrastructure of the protonephridial system of *Dactylogyrus* sp. and an unidentified ancyrocephaline (Monogenea: Dactylogyridae) — 859

S. MONKS and B. B. NICKOL — Effect of *Moniliformis moniliformis* density on distribution within the definitive host population (*Rattus norvegicus*) — 865

K. D. PEMBERTON and J. BARRETT — The detoxification of xenobiotic compounds by *Onchocerca gutturosa* (Nematoda: Filarioidea) — 875

J. A. UPCROFT, L. A. DUNN, L. S. DOMMETT, A. HEALEY, P. UPCROFT and P. F. L. BOREHAM — Chromosomes of *Blastocystis hominis* — 879

J. REVERSAT, F. RENAUD and C. MAILLARD — Biology of parasite populations: the differential specificity of the genus *Helicometra* Odhner, 1902 (Trematoda: Opecoelidae) in the Mediterranean Sea demonstrated by enzyme electrophoresis — 885

P. PROCIV — Larval migration in oral and parenteral *Toxocara pteropodis* infections and a comparison with *T. canis* dispersal in the flying fox, *Pteropus poliocephalus* — 891

W. E. R. Xylander	Ultrastructural studies on the reproductive system of Gyrocotylidea and Amphilinidea (Cestoda): spermatogenesis, spermatozoa, testes and vas deferens of *Gyrocotyle*	897
M. W. Gregory, J. Catchpole and C. C. Norton	Observations on the endogenous stages of *Eimeria crandallis* in domestic lambs (*Ovis aries*)	907
N. D. G. Ibrahim, P. M. Rahamathulla and C. O. Njoku	Neutrophil myeloperoxidase deficiency associated with canine hepatozoonosis	915
M. K. Jones	Ultrastructure of the cirrus pouch of *Cylindrotaenia hickmani* (Jones, 1985) (Cestoda, Nematotaeniidae)	919
C. M. Mutero, M. J. Mutinga and R. Musyoki	Isolation of leishmanial parasites from a wild caught *Anopheles gambiae* mosquito in Kenya	931
Research Notes		
L. Choromanski and R. E. Kuhn	Time-dependent mode of immunization augments suppressed antibody responses in spleen cell cultures from mice experimentally infected with *Trypanosoma cruzi*	935
B. V. Goodger, G. Bushell and I. G. Wright	Concentration of *Babesia bigemina*-infected erythrocytes using a dextran sulphate affinity column	939
A. C. Isaacson, J. E. Huffman and B. Fried	Infectivity, growth, development and pathology of *Echinostoma caproni* (Trematoda) in the golden hamster	943
N. Casado, F. Rodriguez-Caabeiro, A. Jiménez, A. Criado and C. de Armas	*In vitro* effects of levamisole and ivermectin against *Echinococcus granulosus* protoscoleces	945
E. E. Avila and J. Calderón	Species-specific and cross-reactive antigens of *Entamoeba*	949
T. K. Bhat and R. L. Sharma	Osmotic fragility of sheep erythrocytes and alterations in their membrane constituents in *Dictyocaulus filaria* infection	953
L. H. Semprevivo and M. D. Maloney	Isolation of *Onchocerca gibsoni* tissue from frozen nodules for biochemical use	957
A. J. Lymbery and R. C. A. Thompson	Genetic differences between cysts of *Echinococcus granulosus* from the same host	961
Book Review		
R. C. A. Thompson	*Infectious Diseases Colour Atlas Monographs* 1. *Amphizoic Amoebae–Human Pathology*. Edited by E. G. Rondanelli	965
	Volume Contents, Author Index and Key Word Index for Volume 19, 1989	i